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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/740,011	12/20/2000	Kazuyoshi Serizawa	NIT-245	4264
24956 7590 10/04/2005 MATTINGLY, STANGER, MALUR & BRUNDIDGE, P.C.			EXAMINER	
			NGUYEN, QUANG N	
1800 DIAGONAL ROAD SUITE 370		ART UNIT	PAPER NUMBER	
ALEXANDRIA	A, VA 22314		2141	
	,		DATE MAIL ED. 10/04/2006	_

Please find below and/or attached an Office communication concerning this application or proceeding.

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)	Application No.	Applicant(s)
•	09/740,011	SERIZAWA ET AL.
Office Action Summary	Examiner	Art Unit
	Quang N. Nguyen	2141
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet	with the correspondence address
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perion - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	1. 1.136(a). In no event, however, may peply within the statutory minimum of to d will apply and will expire SIX (6) M ute, cause the application to become	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 31	<u>August 2005</u> .	
2a)⊠ This action is FINAL . 2b)□ Tr	nis action is non-final.	
3) Since this application is in condition for allow	rance except for formal ma	atters, prosecution as to the merits is
closed in accordance with the practice under	Ex parte Quayle, 1935 C	.D. 11, 453 O.G. 213.
Disposition of Claims		
4) Claim(s) <u>1-9 and 16-18</u> is/are pending in the	application.	
4a) Of the above claim(s) is/are withdr	• •	
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-6,8,9 and 16-18</u> is/are rejected.		,
7)⊠ Claim(s) <u>7</u> is/are objected to.		
8) Claim(s) are subject to restriction and	or election requirement.	
Application Papers		
9) The specification is objected to by the Examir	ner.	
10) $igotimes$ The drawing(s) filed on <u>20 December 2000</u> is	/are: a)⊠ accepted or b)	objected to by the Examiner.
Applicant may not request that any objection to the	e drawing(s) be held in abey	ance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the corre		
11) The oath or declaration is objected to by the I	Examiner. Note the attach	ed Office Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12)⊠ Acknowledgment is made of a claim for foreig a)⊠ All b)□ Some * c)□ None of:	n priority under 35 U.S.C	§ 119(a)-(d) or (f).
1. Certified copies of the priority docume	nts have been received.	
2. Certified copies of the priority docume	nts have been received in	Application No
Copies of the certified copies of the pri	ority documents have bee	en received in this National Stage
application from the International Bure	. , ,	
* See the attached detailed Office action for a lis	st of the certified copies no	ot received.
Attachmait/a\		
Attachment(s) 1) Notice of References Cited (PTO-892)	ما المستعدد	(Summon (DTO 442)
2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper N	v Summary (PTO-413) o(s)/Mail Date
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date		f Informal Patent Application (PTO-152)
S. Patent and Trademark Office TOL-326 (Rev. 1-04) Office	Action Summary	Part of Paper No./Mail Date 20050928

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Detailed Action

1. This Office Action is in response to the Amendment filed on 08/31/2005. Claims 1 and 5-8 have been amended. Claims 10-15 have been cancelled. Claims 16-18 have been added as new claims. Claims 1-9 and 16-18 are presented for examination.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

- 3. Claim 5 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 4. Claim 5 recites the limitation "... wherein <u>said computer node</u> ..." in line 1. There is insufficient antecedent basis for this limitation in the claim (the first one or second one?).

In order to exam the claim, Examiner will assume "said computer node" to be the case of "said second computer node".

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Claim Rejections - 35 USC § 102

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5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international

application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section

371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act

of 1999 (AIPA) and the Intellectual Property and High Technology Technical

Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting

directly or indirectly from an international application filed before November 29, 2000.

Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior

to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

6. Claims 1-6, 8-9 and 16-18 are rejected under 35 U.S.C. 102(e) as being

anticipated by Beardsley et al. (US 6,304,980), herein after referred as Beardsley.

7. As to claim 1, Beardsley teaches a computer system as illustrated in Fig. 2,

comprising:

a first storage area for storing data records (primary DASD 206) (Beardsley, C9:

L14-23);

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a first processor provided with said first computer node (the primary site 114 includes a primary host/processor 101 of Fig. 1 or primary host/processor 201 of Fig. 2) for storing the data records to said first storage area asynchronously with said second computer node with the free time interval (Beardsley, C7: L38-40 and C8:L56 - C9:L20);

a transmitter provided with said first computer node for sending the data records stored in said first storage area (i.e., a primary storage controller 205 transferring record updates via a primary data mover 204) (Beardsley, C9: L20-23 and C9:L63 - C10:L13);

a second storage area for storing the data records copied from said first storage area (secondary DASDs 216) (Beardsley, C9: L38-43);

a receiver provided with said second computer node and connected to said transmitter via a network for requesting said transmitter to send a record group of the data records stored in said first storage area via said network and designated by a request command sent by said receiver, receiving the record group of the data records from said transmitter via said network and storing the record group of the data records to said second storage area (collecting record updates by the primary data mover 204 and transmitting those record updates to the second data mover 214 in order to store into the multiple secondary DASDs 216 via multiple secondary storage controllers 215) (Beardsley, C9: L38-43 and C10: L14-21); and

a second processor (secondary processor 211) for designating the record group, to be read from said first storage area by using address information of said first storage area in a free time interval asynchronously with storing executed by said first processor (i.e., the primary processor 201 transfers data and control information to the secondary

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processor 211 by a communications protocol, for example, a virtual telecommunications

access method VTAM communication link 208) and for letting said receiver send the

request command to said transmitter, wherein said transmitter reads the record group

designated by the request command sent from said receiver and sends the record

group to said receiver in response to the request command via said network (i.e., the

asynchronous data system 200 encompasses collecting control data from the primary

storage controllers 205 so that an order of all data writes to the primary DASDs 206 is

preserved and applied to the secondary DASDs 216) (Beardsley, Fig. 2 and C9:L20 -

C10:L13).

8. As to claim 2, Beardsley teaches the system of claim 1, wherein said first storage

area is allocated within said first computer node (i.e., primary DASD 104 allocated

within primary site 114 of Fig. 1) (Beardsley, Fig. 1).

9. As to claim 3, Beardsley teaches the system of claim 1, wherein said second

storage area is allocated within said second computer node (i.e., second DASD 107

allocated within secondary site 115 of Fig. 1) (Beardsley, Fig. 1).

10. As to claim 4, Beardsley teaches the system of claim 1, wherein first storage

area is allocated within an external storage device connecting with said first computer

node and said second computer node (i.e., wherein a DASD 206 is an external storage

device as illustrated in Fig. 2) (Beardsley, Fig. 2).

- 11. As to claim 5, Beardsley teaches the system of claim 1, wherein said second computer node is provided with a timer for starting said second processor with a constant time interval to indicate said receiver to send the request command to said transmitter via said network (i.e., wherein in the secondary site 231 is similar to the primary site 221 which includes a common sysplex clock 207 to provide a common time reference to all applications running therein) (Beardsley, C8: L56-67, C9: L1-14 and L24-28).
- 12. As to claim 6, Beardsley teaches the system of claim 1, wherein said first processor stores each record group of the data records to said first storage area with an identifier number indicating a sequence of storing of the each record group of the data records, said transmitter sends the record group to said receiver in reverse order of the sequence of storing, and said second processor refers to the record group of the data records in said first storage area copied to said second storage area based on the reverse order in order to determine whether the relevant data records are correct or not depending on said identifier number (Beardsley, C13: L54-67 and C14: L1-42).
- 13. As to claim 8, Beardsley teaches the system of claim 1, wherein said first processor further includes an error checking code generator for generating an error checking code for the record group of the data records to write the record group of the data records and the error checking code to said first storage area (i.e., if the error is

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permanent, the host ERP stores an error code in a maintenance log to assist in future

corrective action) and said second processor checks an error, by use of the error

checking code, of the record group of the data records read to said second storage area

(i.e., the primary storage controller 103 then queries the secondary storage controller

106 to determine whether the PGID and reserve notification were received, if not, an

error condition is issued) (Beardsley, C14: L14-42, C17: L20-39 and C20: L1-49).

14. As to claim 9, Beardsley teaches the system of claim 8, wherein said first storage

area includes a plurality of entries for storing a set of said error checking code and the

data records to read the data records in the inverse direction to the direction to write the

data records to said entry with said first processor (Beardsley, C17: L20-39).

15. Claims 16-18 are corresponding computer system claims of computer system

claims 1 and 5-6; therefore, they are rejected under the same rationale.

Allowable Subject Matter

16. Claim 7 is objected to as being dependent upon a rejected base claim, but would

be allowable if rewritten in independent form including all of the limitations of the base

claim and any intervening claims.

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Response to Arguments

- 17. In the remarks, applicant argued in substance that
- (A) Prior Art does not teach or suggest "a data receiver of the secondary computer makes a read request to read a set of data records stored in a memory of the primary computer based on an indication from a processor of the secondary computer and sends the read request to a data transmitter of the primary computer", as claimed.

As to point (A), Beardsley teaches an asynchronous disaster recovery system 200 including a primary site 221 and a remote or secondary site 231 as illustrated in Fig. 2, wherein the storage controller (i.e., one of the secondary storage controllers 215) of the remote secondary site 231 contains four storage paths 401 connected to an 8x2 switch 402 by an upper channel port 430 and to a plurality of DASDs 216 by a lower device port 432, wherein the storage path 401 directs the transfer of data records (i.e., making the request for data transferring of the data records) (Beardsley, C11: L20-33). In addition to directing the transfer of data, the storage path 401 also maintains the status of one or more duplex pairs and sets/resets flags within the control blocks to indicate when the secondary DASD 107 needs to be synchronized with the primary DASD 104 (i.e., designating a record group and requesting to transfer data from one computer to another) (Beardsley, C12: L31-62).

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18. Applicant's arguments as well as request for reconsideration filed on 08/31/2005

have been fully considered but they are not deemed to be persuasive.

19. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time

policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Quang N. Nguyen whose telephone number is (571)

272-3886.

20.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

SPE, Rupal Dharia, can be reached at (571) 272-3880. The fax phone number for the

organization is (571) 273-8300.

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Business Center (EBC) at 866-217-9197 (toll-free).

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